

1	cgagaaaaggtgacgcggggcccgggcaggcgccggcgccggcccccccccccccg	
61	cctgggttatgtggccgccttcgccggcagctcaggcgagagctctcctggaaggcgaggc	
121	agtgtggcgagaagggcgctgtgttctttcttttctgtctttcccccggttgccgc	
181	ctggaagctgcgccgcgagttcctgcaaggcggtctgccgcggccggggcccgcttctc	
241	ccctcgagcgacccccgcctcgccggcgccggcccccgaggtagcccgaggcgccggag	
301	gagccagccccagcgagcgccgggagaggcgccagcgagccggacgcacagcgagcgg	
361	gccggcaccagctcgccggggcccgactcggaactcgccggcgccggcgccggcccg	
421	cccagcgaggggtggggggcgccggcgccggcgccggg	
457	cgccggcgagcgggggccATGCAGGCGCGCTACTCCGTGTCCAGCCCCAACTCC	
METGlnAlaArgTyrSerValSerSerProAsnSer	12
511	CTGGGAGTGGTGCCCTACCTCGGCGGCGAGCAGAGCTACTACCGCGCGGCGGCC	
	LeuGlyValValProTyrLeuGlyGlyGluGlnSerTyrTyrArgAlaAlaAla	30
565	GCGGCGGCGCGGGGCGGCTACACCGCCATGCCGCCCCCATGAGCGTGTACTCG	
	AlaAlaAlaGlyGlyGlyTyrThrAlaMETProAlaProMETSerValTyrSer	48
619	CACCTGCGCACGCCGAGCAGTACCCGGGCGCATGGCCCCGCGCTACGGGCCCC	
	HisProAlaHisAlaGluGlnTyrProGlyGlyMETAlaArgAlaTyrGlyPro	66
673	TACACGCCGCGAGCCGAGCCCAAGGACATGGTGAAGCCGCCCTATAGCTACATC	
	TyrThrProGlnProGlnProLysAspMETValLysProProTyrSerTyrIle	84
727	GCGCTCATCACCATGGCCATCCAGAACGCCCCGACAAGAAGATCACCTGAAC	
	AlaLeuIleThrMETAlaIleGlnAsnAlaProAspLysLysIleThrLeuAsn	102
781	GGCATCTACAGTTCATCATGGACCGCTTCCCTTCTACCGGGACAACAAGCAG	
	GlyIleTyrGlnPheIleMETAspArgPheProPheTyrArgAspAsnLysGln	120
835	GGCTGGCAGAACAGCATCCGCCACAACCTCTCGCTCAACGAGTGCTTCGTCAAG	
	GlyTrpGlnAsnSerIleArgHisAsnLeuSerLeuAsnGluCysPheValLys	138
889	GTGCCGCGCAGCACAAGAAGCCGGGCAAGGGCAGCTACTGGACGCTGGACCCG	
	ValProArgAspAspLysLysProGlyLysGlySerTyrTrpThrLeuAspPro	156
943	GA CTCTACAACATGTTTCGAGAACGGCAGCTTCCTGCGGCGGCGGCGGCTTC	
	AspSerTryAsnMETPheGluAsnGlySerPheLeuArgArgArgArgPhe	174
997	AAGAAGAAGGACCGGTGAAGGACAAGGAGGAGAAGGACAGGCTGCACCTCAAG	
	LysLysLysAspAlaValLysAspLysGluGluLysAspArgLeuHisLeuLys	192
1051	GAGCCGCCCCCGCCGCGCCAGCCCCCGCCGCGCGCGGAGCAGGCCGAC	
	GluProProProProGlyArgGlnProProProAlaProProGluGlnAlaAsp	210
1105	GGCAACGCGCCCGGTCCGCAGCCCGCCCGTGC GCATCCAGGACATCAAGACC	
	GlyAsnAlaProGlyProGlnProProProValArgIleGlnAspIleLysThr	228
1159	GAGAACGGTACGTGCCCCCTCGCCGCCCCAGCCCCCTGTCCCCGCGCGCCCTG	
	GluAsnGlyThrCysProSerProProGlnProLeuSerProAlaAlaAlaLeu	246
1213	GGCAGCGGCAGCGCCGCGCGGTGCCCAAGATCGAGAGCCCCGACAGCAGCAGC	
	GlySerGlySerAlaAlaAlaValProLysIleGluSerProAspSerSerSer	264
1267	AGCAGCCTGTCCAGCGGGAGCAGCCCCCGGGCAGCCTGCCGTGCGCGCGGCCG	
	SerSerLeuSerSerGlySerSerProProGlySerLeuProSerAlaArgPro	282
1321	CTCAGCCTGGACGGTGCGGATTCCGCGCCGCGCCGCGCCGCGCCCTCCGCCCCG	
	LeuSerLeuAspGlyAlaAspSerAlaProProProProAlaProSerAlaPro	300
1375	CCGCCGCACCATAGCCAGGGCTTCAGCGTGGACAACATCATGACGTGCGTGGCG	
	ProProHisHisSerGlnGlyPheSerValAspAsnIleMETThrSerLeuArg	318
1429	GGGTGCGCGCAGAGCGCGCGCGGAGCTCAGCTCCGGCCTTCTGGCCTCGCGG	
	GlySerProGlnSerAlaAlaAlaGluLeuSerSerGlyLeuLeuAlaSerAla	336
1483	GCCGCGTCTCGCGCGCGGGGATCGCACCCCGCTGGCGCTCGGCGCCTACTCG	
	AlaAlaSerSerArgAlaGlyIleAlaProProLeuAlaLeuGlyAlaTyrSer	354
1537	CCCGGCCAGAGCTCCCTCTACAGCTCCCCCTGCAGCCAGACCTCCAGCGCGGGC	
	ProGlyGlnSerSerLeuTyrSerSerProCysSerGlnThrSerSerAlaGly	372

Fig. 1A

2185 aagggaaccatcaaggcaaaatcgaaactaaaaaaaaaaatccaattaaaaaaaaacccc
2245 tgagaatattcaccacaccagcgaaacagaatatccctccaaaattcagctaccagcagc
2305 cagcacgaagaaaactctattttcttaaccgattaattcagagccacctccactttgcct
2365 tgtctaaataaaacaaacccgtaaacgtgttttatacagagacagcaaaatcttggtttatt
2425 aaaggcacgtgttactccagataaacagtaagtttcttcttgccttttcagagacctgctt
2485 tccccctctccgctctccccctctcttgccttctcttgcctctcacgtgtaagatat
2545 ttttatcctatgttgaaggagggggaaagtccccgtttatgaaagtcgctttcttttta
2605 ttcattggacttgtttaaaatgtaaatgcaacatagtaattttatttttaatttgtagtt
2665 ggatgtcgtggaccaaacgccagaaagtgttcccaaaacctgacgttaatttgcctgaaa
2725 ctttaatttgcctttttttctcattataaaaagggaactgtattaactttattctatc
2785 ctcttttcttttttttggtagaacatttcattgtttgtttatgtaaaataccattca
2845 qtttgaatgagacctatatgtctggatactttaatagagctttaattattacgaaaaag
2905 atttcagagataaaacacatagaagttacctattctccacctaaatctctgaaaaatggag
2965 aaacctctgactagtcctatgtcaaattttactaaaagtccttttggttagatttatttt
3025 cctgcagcatctctgcaaaatgtactatatgcagcttgccttgaggctagtaaaaaag
3085 atatttttctaaacagattggagttggcatataaaccaaatacgtttctcactaatgaca
3145 gtccatgattcggaaattttaagcccatgaatcagccgcgggtcttaccacggtgatgcct
3205 gtgtgcgcagagatgggactgtgcggccagatagcagagataaatatttggcttgtgta
3265 ttccatataaaaattgcagtgcatattatatacctcctgtgagccagatgtctgaatagatt
3325 tttcctattatttcagtcctttataaaaaggaaaaataaacaggactttttaaattgtatgtat
3485 ataattctccccatttacaatccttcatgtattacatagaaggattgcttttttaaaaa
3445 tatactgccggttggaagggatatttaattctttgagaaactattttagaaaaatagtgtt
3505 gtagaacaattatttttgaaaaagattttaagcaataacaagaagggaaggcgagaggagc
3565 agaactatttggcttaggttggtttctttttaaaccattttttcttgttaattttacagtt
3625 aaacctaggggacaatccgatttggccctccaccttttgaataaacccaggaatgttaa
3685 taaattcatttatcttaggttgatctgcctgccaatcagactttggggagatggcgattt
3745 gattacagacgttcgggggggtggggggcttgcagtttgttttggagataatacagtttc
3805 ctgctatctgccgctcctatctagaggcaacacttaagcagtaattgctgttgcttgttg
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3925 aaaaaaaaaaaaaaaaaaaaaa

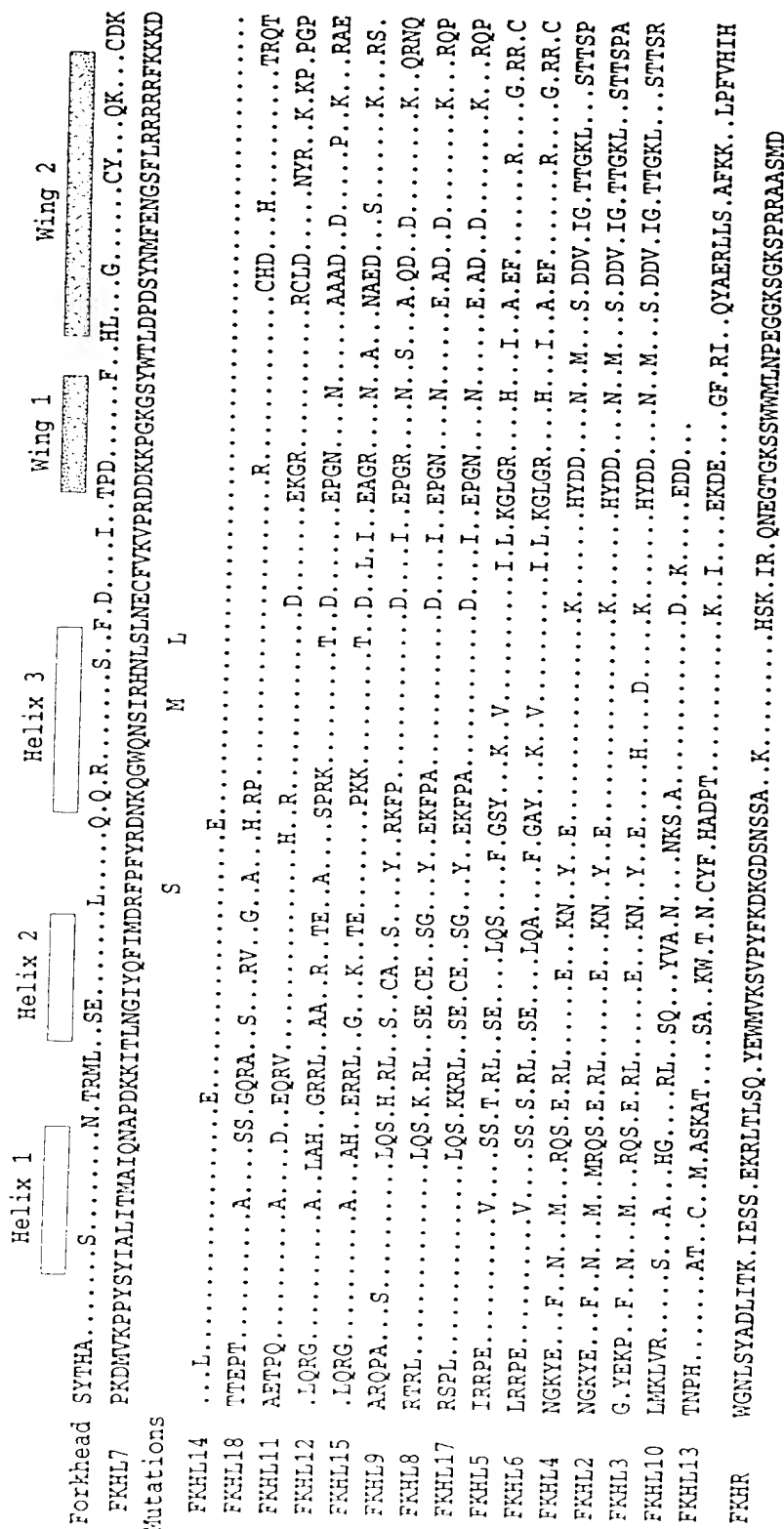


Fig. 2

Clone Name	Image Number	Organism	Vector	Loc	5' Sequence	3' Sequence	Insert Size	Tissue	Contig
zr45a08	666326	Human		3'	AA232742	AA232201		NHMPu	
zw04a06	768274	Human		3'		AA424787		NHMPu	
zv90g12	767110	Human		3'	AA424381	AA424466		NHMPu	
yw76b12	258143	Human	pT7T3D	3'	N40575			Placenta, 8 to 9 wk	
zel3t07	358885	Human		3'		W94629		Fetal Heart	
yw78d12	258359	Human		3'		N25875		Placenta, 8 to 9 wk	
zw05a06	768370	Human	pT7T3D	3'	AA495846		722	NHMPu	
oj36t08	1500423	Human		3'		AA885880		NCI CGAP_Lu5	
zd71b11	346077	Human		3'	W77980			Fetal Heart, 19 wk	
ah14c11	1156628	Human		3'		AA776534		Wilms Tumor	
oh48b09	1469849	Human		3'		AA865139		NCI CGAP_GC4	
zd71b12	346079	Human		3'		W73917		Fetal Heart, 19 wk	
ze71a01	364392	Human	pT7T3D	3'	AA022618	AA022755	919	Fetal Heart, 19 wk	
zel3t07	358885	Human		3'	W94714			Fetal Heart, 19 wk	
ok90g07	1521276	Human		3'		AA902429		Fetal Heart, 19 wk	
yw78b12	258335	Human		3'		N25867		Placenta, 8 to 9 wk	
yw28c11	253556	Human	pBlue SK-	3'	H89575			Fetal Cochlea	
EST54452		Human		3'	AA348051			Fetal Heart	
EST38957		Human		3'	AA334694			Embryo, 9 wk	
yw30d03	253733	Human	pBlue SK-	3'	N75774	N22552	475	Fetal Cochlea	
nj57a04	996558	Human		3'	AA551599			NCI CGAP_Pr9	
yw76d12	258167	Human	pT7T3D	3'	N40582			Placenta, 8 to 9 wk	
nv16g07	1220412	Human		3'		AA688135		NCI CGAP_Pr22	
GEN-206f07		Human		3'	D56550			Aorta	
oj39104	1500703	Human		3'		AA886687		NCI CGAP_Kid3	
GEN-288A05		Human		3'	D57248			Aorta	
vc30a07	776052	Mouse	pT7T3D	3'	AA276025			Kidney, 6 wk	
vu08t03	1180061	Mouse		5'	AA673797			Myotubes	
vw64c01	1248576	Mouse		3'	AA960591	AA759405	936	Mammary Gland, 4 wk	
vg45c07	864300	Mouse	pT7T3D	3'		AA458089		Mammary Gland, 4 wk	
md53e12	372142	Mouse		3'		W57082		Embryo, 13.5-14.5 dy	
mt72a07	419796	Mouse	pT7T3D	5'	W91182			Embryo, 13.5-14.5 dy	
vv53d11	1226133	Mouse	pT7T3D	5'	AA739434			Thymus, 4 wk	
me94t07	403237	Mouse	pT7T3D	3'				Embryo, 13.5-14.5 dy	
vc85b07		Mouse	pSPORT1	3'				Embryo, 11.5 dy	
mo83c06				3'					
UI-R-AO-al-b-03		Rat		3'	AA819240				
UI-R-EI-go-e-12		Rat		3'	AA964464			Embryo	

Fig. 3